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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/679,354	10/07/2003	Issei Takemoto	501.43190X00	3850
20457	7590 12/13/2005		EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			PERRY, ANTHONY T	
SUITE 1800			ART UNIT	PAPER NUMBER
ARLINGTO:	N, VA 22209-3873		2879	

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	M				
Office Action Commence	10/679,354	TAKEMOTO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Anthony T. Perry	2879					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addres	\$S				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this commu ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23 S	eptember 2005.						
	action is non-final.						
3) Since this application is in condition for allowa	nce except for formal matters, pro	osecution as to the me	erits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application	•						
4a) Of the above claim(s) 9-20 is/are withdraw	n from consideration.						
5) Claim(s) is/are allowed.	•						
6)⊠ Claim(s) <u>1-8 and 21</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>07 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	, p. 101. 101. 101. 101. 101. 101. 101. 1	, (-)					
1.⊠ Certified copies of the priority document	s have been received.		,				
2. Certified copies of the priority document		ion No					
3. Copies of the certified copies of the prior	, ,		ae				
application from the International Burea	•		J				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmont/c)							
Attachment(s) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	/ (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	' =	Patent Application (PTO-15	2)				
Paper No(s)/Mail Date	6)						
Malent and Hanemark Little							

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DETAILED ACTION

Election/Restrictions

Claims 9-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in the reply filed on 9/23/05.

Applicant's election with traverse of claims 1-8 and 21 in the reply filed on 9/23/05 is acknowledged. The traversal is on the ground(s) that the amended claim 1 is generic and deemed allowable. This is not found persuasive because claim 1 is currently rejected (see rejection below). It is noted that the amended claim 1 is now in generic form for the species shown in Fig. 1 and Fig. 2 (claims 2-15 and 21).

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogura et al. (US 6,924,594) in view of Su (6,628,071).

Regarding claim 1, Ogura et al. teach a display device comprising a first substrate (810) having a display area (802) in which a plurality of pixels are arranged in a matrix array on a main surface of the first substrate and a first seal area formed at a periphery of the display area on the main surface of the first substrate (See Fig. 8B). Each of the plurality of pixels has a light emitting element and a pixel circuit (811) including an active element. A second substrate (804)

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is disposed to cover the main surface of the first substrate with a main surface of the second substrate, and has a second seal area at a part of the main surface of the second substrate opposite to the first seal area of the first substrate. The first substrate and the second substrate are stuck together with a seal material (805) interposed between the first seal area and the second seal area. The first substrate has a cathode film (817) that is commonly utilized for the respective light emitting elements of the plurality of pixels and covers the second substrate side of the display area (802). A driving circuit (803) that drives the plurality of pixels is arranged outside of the display area (802) on the main surface of the first substrate. The cathode film (817) also covers the driving circuit (803).

Ogura et al. do not specifically teach the second substrate having a recessed portion. However, the second substrate having such a recessed portion is well known in the art (for example see pages 2-3 of the Applicant's specification). Su teaches the second substrate of a similar display device can be made to have such a recess portion within the seal area of the second substrate in order to accommodate a moisture absorbent layer such that the thickness of the display device can be reduced (see col. 2, lines 37-40). Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a recess in the second substrate with a moisture absorbent layer provided therein in order to reduce the thickness of the display device.

Claims 2-8 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogura et al. (US 6,924,594) in view of Su (6,628,071), as applied to claim 1, above, and further in view of Yamada et al. (US 6,833,668).

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Regarding claim 21, the combination of Ogura et al. and Su does not specifically teach that the cathode film (817) extending beyond the display area (802) and covering the driving circuit (803) has a light shielding property.

However, Yamada teaches that by using a cathode made of metal, the cathode can serve as a light shielding layer for blocking ultraviolet irradiation, used in curing the sealing material that holds the two substrates together, preventing the irradiation from reaching the organic EL layer and the driver circuits of the display device (see col. 4, lines 51-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the cathode film of the Ogura reference of a light-shielding material in order to protect the light emitting element from UV light used in the curing of the sealing material of the display device.

Regarding claim 2, Yamada teaches the light-shielding cathode being formed of silver (col. 15, lines 21-26).

Same reason for combination given in the rejection of claim 21 applies.

Regarding claims 4 and 6, Ogura teaches that the light-emitting element has a lightemitting layer formed of an organic electroluminescent material, Alq₃ (col. 16, lines 38-39). Alg₃ is an organic semiconductor.

Regarding claims 5 and 7. Ogura teaches that the first seal area surrounds the display region (802) and that the driver circuit area (803) does not extend outside the first seal area on the main surface of the first substrate (810) (see Fig. 8B).

Regarding claim 8, Su teaches that the second seal area surrounds the recessed portion formed in the main surface of the second substrate (for example, see Fig. 2).

Same reason for combination given in the rejection of claim 1 applies.

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Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogura et al. (US 6,924,594) in view of Su (6,628,071) in view of Yamada et al. (US 6,833,668) as applied to claim 21, above, and further in view of Yamazaki et al. (US 6,952,023).

Regarding claim 3, Ogura, Su, and Yamada fail to specifically teach the light-shielding cathode having a laminated structure formed by stacking two laminated films. However, Yamazaki teaches a light-shielding cathode layer formed by laminating two conductive films, such as an aluminum film and a copper film (col. 31, lines 6-10). It has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. Thus, it would have been obvious to one having ordinary skills in the art at the time the invention was made to have formed the light-shielding cathode as a laminated structure formed by stacking an aluminum conductive layer and a copper conductive layer, since the selection of known materials for a known purpose is within the skill of the art.

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yamazaki et al. (6,894,431) teaches the cathode (437) covering the display area (403) and the driver circuit (433) (for example, see Fig. 6).

Yamazaki et al. (6,952,023) also teaches the cathode (720) covering the display area and the driver circuit (701) (for example, see Figs. 15-16).

Yamazaki et al. (6,965,195) also teaches the cathode (204) covering the display area (102) and the driver circuit (103) (for example, see Fig. 2A).

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Yamazaki (6,956,324) also teaches the cathode (714) covering the display area and the driver circuit (709) (for example, see Fig. 8B).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Anthony Perry* whose telephone number is (571) 272-2459. The examiner can normally be reached between the hours of 9:00AM to 5:30PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-24597. The fax phone number for this Group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toII-free).

Anthony Perry Patent Examiner

Art Unit 2879

December 8, 2005

Mariceli Santiago
Primary Examiner

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